Experiment no:- 09

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**Program Code:-**

public class ExceptionHandling{

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

try {

System.out.print("Enter value of a: ");

int a = scanner.nextInt();

int b = 0; // Intentionally setting b to 0

System.out.println("Attempting division: " + a + " / " + b);

int result = a / b;

System.out.println("Result: " + result);

int[] array = new int[5];

System.out.println("Accessing the 6th position of the array...");

int value = array[5];

} catch (ArithmeticException e) {

// Catching division by zero

System.out.println("Error: Division by zero is not allowed.");

} catch (ArrayIndexOutOfBoundsException e) {

System.out.println("Error: Array index out of bounds.");

} finally {

System.out.println("The 'finally' block executed.");

}

}

}

**Output:-**

Enter value of a: 10

Attempting division: 10 / 0

Error: Division by zero is not allowed.

The 'finally' block executed.